



ISO 9001, ISO 14001, ISO 50001 & OHSAS 18001
Certified by IRQS

IS 455



CM/L-6957196

**JSW CEMENT LTD.,
VIJAYANAGAR WORKS**


IS: 455: 2015

**TEST CERTIFICATE FOR PORTLAND SLAG CEMENT
(PSC CONCREEL HD)**

S.No.	Characteristics	Requirement as Per IS 455:2015	Test Result
	CHEMICAL REQUIREMENTS	% Max.	
1	Magnesium Oxide (% MgO)	10.0	5.36
2	Sulphur Trioxide (% SO ₃)	3.5	1.82
3	Sulphide Sulphur (% S)	1.5	0.14
4	Loss On Ignition (%)	5.0	0.79
5	Insoluble Residue (%)	4.0	0.92
6	Chlorides (%)	0.1	0.006
7	Alkali Content (%) as Na ₂ O	0.6	0.36
	PHYSICAL REQUIREMENTS		
1	Normal Consistency	NA	30.25
2	Fineness (M ² /Kg)(Min)	225	344
3	Setting Time (minutes)		
	a) Initial(Min)	30	150
	b) Final(Max)	600	250
4	Soundness		
	a) Le-chatelier (mm)(Max)	10	1.00
	b) Auto Clave (%) (Max)	0.8	0.008
5	Compressive Strength (MPa)		
	a) 72 ± 1h (3 days)(Min)	16	20.90
	b) 168 ± 2h(7 days)(Min)	22	30.40
	c) 672 ± 4h (28 days)(Min)	33	48.60

Week No. 27

02.07.2023-08.07.2023


Authorized signatory